

CLAIMS

What is claimed is:

1. An insert in a push-in type tube coupling having a primary seal, the insert sized and dimensioned to fit in a lumen of a tube to be inserted into the coupling, and the insert having
5 at least one secondary seal.
2. The insert of claim 1 having at least two secondary seals.
3. The insert of claim 2 further comprising a base and a shaft, wherein one of the at least two secondary seals is disposed around the base, and another of the at least two secondary seals is disposed around the shaft.
- 10 4. The insert of claim 1 further comprising a chamfered base that facilitates insertion of the insert into the coupling.
5. The insert of claim 1 further has a mechanism that impedes accidental removal of the insert from the coupling.
6. The insert of claim 5 wherein the mechanism comprises a base having a shoulder that
15 cooperates with a retaining ring of the coupling to impede accidental removal of the insert from the coupling.
7. The insert of claim 1 wherein the primary and at least one secondary seal comprise "O" rings.
8. The insert of claim 1 wherein the at least one secondary seal comprises a
20 circumferential boss.
9. The insert of claim 1 wherein the insert is integrally formed as part of the coupling.
10. The insert of claim 1 wherein the insert is a separate piece housed within the coupling.
11. A push-in type tube coupling system, comprising a body with (a) at least one sleeve that receives an end of a length of tubing, (b) a primary seal, and (c) a tubing insert that is
25 movable within the body.

12. The coupling system of claim 11 further comprising the tubing insert having a having a secondary seal.

13. The coupling system of claim 12 wherein the secondary seal comprises an "O" ring.

14. The coupling system of claim 12 wherein the secondary seal comprises a boss
5 circumferentially disposed about a portion of the insert.

15. The coupling system of claim 12 wherein the secondary seal is juxtaposed between the insert and a wall of the sleeve.

16. The coupling system of claim 12 wherein the secondary seal is juxtaposed between the insert and a wall of the tubing.